

SWARTHMORE COLLEGE,

1876-77.

## TO THE STOCKHOLDERS.

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THE ANNUAL MEETING OF THE STOCKHOLDERS is held in Race Street Meeting House, Philadelphia, on the first Third-day in Twelfth month, at three o'clock, P. M. Public notice of this meeting is given in one or more newspapers published, respectively, in Philadelphia, New York, and Baltimore.

It is desirable that Stockholders should be furnished with the Catalogues, and all other publications issued by the authority of the College, as well as notices of the annual meetings. This has heretofore been but imperfectly done, as the list of addresses has never been complete.

During the past year, considerable labor and care have been given to the preparation of a new list, and it is believed that the present Catalogue will therefore reach nearly all the Stockholders.

In order that a correct record may be kept, Stockholders are requested to forward to the undersigned, information of any failure to receive this Catalogue, as well as notice of removal, or change in their P. O. address hereafter.

ISAAC H. CLOTHIER,

*Clerk of Stockholders' Meeting,*

801 MARKET STREET, PHILAD'A.



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Author:  
Swarthmore  
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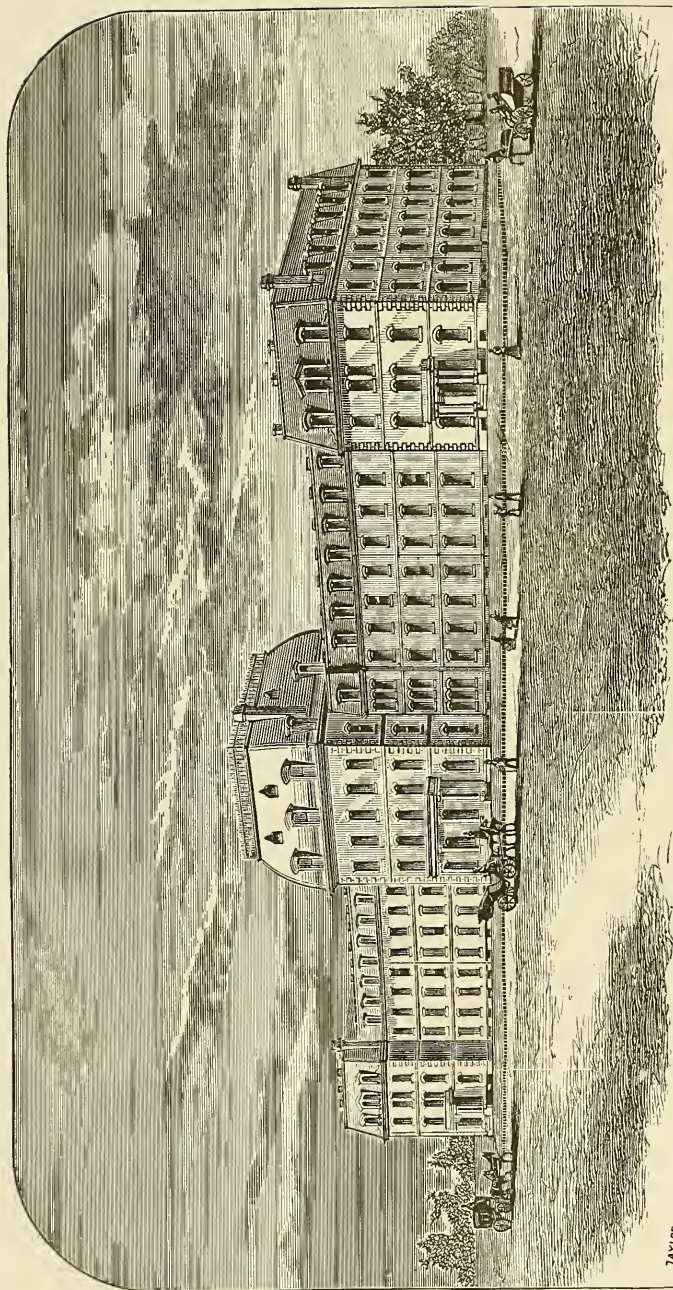
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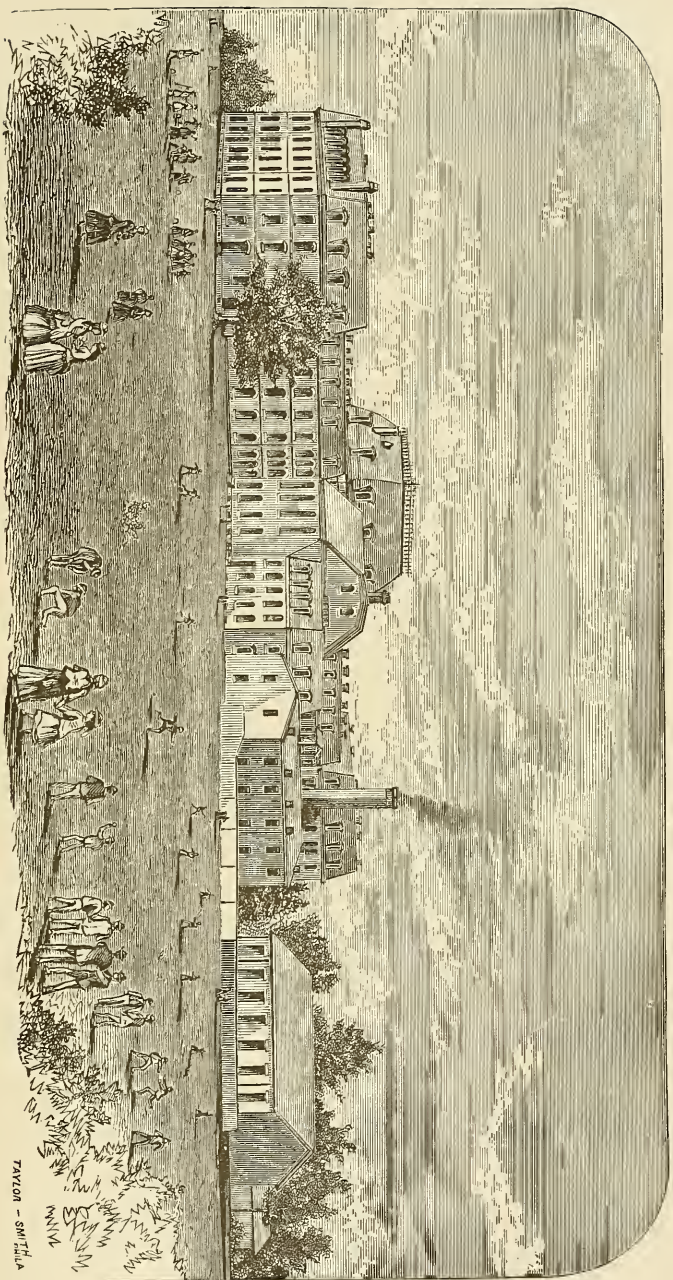


SWARTHMORE COLLEGE, DELAWARE COUNTY, PA.

[FRONT VIEW.]


TAYLOR - SMITH





SWARTHMORE COLLEGE, DELAWARE COUNTY, PA.

[REAR VIEW.]



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EIGHTH  
ANNUAL CATALOGUE  
OF  
SWARTHMORE COLLEGE,  
SWARTHMORE, PA.  
1876-77.  
WITH MINUTES OF THE  
THIRTEENTH ANNUAL MEETING  
OF THE  
STOCKHOLDERS.

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PHILADELPHIA:  
FRIENDS' BOOK ASSOCIATION, 706 ARCH STREET,  
1876.

# CALENDAR.

1876-77.

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1876.	Sixth month 20th,	Third-day,	COMMENCEMENT.
"	Sixth month 21st,	Fourth-day,	Summer Vacation begins.
"	Ninth month 12th,	Third-day,	Meeting of the Board of Managers.
"	Ninth month 12th,	Third-day,	Examinations for admission begin.
"	Ninth month 14th,	Fifth-day,	Examinations for admission completed, and old students return.
"	Ninth month 15th,	Sixth-day,	Regular Exercises begin.
"	Twelfth month 4th,	Second-day,	Meeting of the Board of Managers.
"	Twelfth month 5th,	Third-day,	ANNUAL MEETING OF STOCKHOLDERS.
"	Twelfth month 5th,	Third-day,	Meeting of the Board of Managers.
"	Twelfth month 22d,	Sixth-day,	Holidays begin.
1877.	First month 2d,	Third-day,	Students return.
"	First month 3d,	Fourth-day,	Regular Exercises begin.
"	Second month 13th,	Third-day,	Meeting of the Board of Managers.
"	Fifth month 7th,	Second-day,	Senior Examinations begin.
"	Fifth month 15th,	Third-day,	Senior Examinations completed, the re- sult announced, and parts for Com- mencement assigned.
"	Sixth month 11th,	Second-day,	Annual Examinations begin.
"	Sixth month 18th,	Second-day,	Annual Examinations completed, and the result announced.
"	Sixth month 18th,	Second day,	Meeting of the Board of Managers.
"	Sixth month 19th,	Third-day,	COMMENCEMENT.
"	Sixth month 20th,	Fourth-day,	Summer Vacation begins.
"	Ninth month 11th,	Third-day,	Meeting of the Board of Managers.
"	Ninth month 11th,	Third-day,	Examinations for admission begin.
"	Ninth month 13th,	Fifth-day,	Examinations for admission completed and old students return.
"	Ninth month 14th,	Sixth-day,	Regular Exercises begin.
"	Twelfth month 3d,	Second-day,	Meeting of the Board of Managers.
"	Twelfth month 4th,	Third-day,	ANNUAL MEETING OF STOCKHOLDERS.
"	Twelfth month 4th,	Third-day,	Meeting of the Board of Managers.
"	Twelfth month 22nd,	Seventh-day,	Holidays begin.
1878.	First month 2d,	Fourth-day,	Students return.
"	First month 3d,	Fifth-day,	Regular Exercises begin.



# CORPORATION.

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## Officers.

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### CLERKS.

ISAAC H. CLOTHIER,

SARAH F. CORLIES.

### BOARD OF MANAGERS.

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ISAAC STEPHENS,  
JAMES V. WATSON,  
CLEMENT BIDDLE,  
EDWARD TAYLOR,  
JOHN D. HICKS,  
ROBERT WILLETS,  
JOSEPH WHARTON,  
M. FISHER LONGSTRETH,  
ELLWOOD BURDSALL,  
B. RUSH ROBERTS,  
JOSEPH WILLETS,  
ELI M. LAMB,  
ISAAC H. CLOTHIER, *Ex-officio*.

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ANNIE COOPER,  
SARAH H. BAKER,  
ELIZA H. BELL,  
HANNAH W. HAYDOCK,  
ANNA M. FERRIS,  
MARY T. LONGSTRETH,  
ANNIE SHOEMAKER,  
RACHEL T. JACKSON,  
ANNA M. HUNT,  
CAROLINE UNDERHILL,  
ELIZABETH S. WORTH,  
SARAH F. CORLIES, *Ex-officio*.

### TREASURER.

ROBERT BIDDLE.

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## SECRETARY.

M. FISHER LONGSTRETH.

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JAMES V. WATSON.

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JOSEPH WHARTON,

JOHN D. HICKS,

HANNAH W. HAYDOCK,

ANNA M. FERRIS,

ANNIE COOPER,

M. FISHER LONGSTRETH.

## MUSEUM AND PHYSICAL LABORATORY.

EDWARD TAYLOR,

ANNA M. HUNT,

JOSEPH WHARTON,

MARY T. LONGSTRETH.

## FRIENDS' HISTORICAL LIBRARY.

RACHEL T. JACKSON,

ISAAC STEPHENS,

ANNA M. FERRIS,

ELI M. LAMB.

## FINANCE.

HUGH McILVAIN,

M. FISHER LONGSTRETH,

JAMES V. WATSON.

## BUILDING AND PROPERTY.

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ELLWOOD BURDSALL,

CLEMENT M. BIDDLE.

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JOSEPH WHARTON,	DANIEL UNDERHILL,
CLEMENT M. BIDDLE.	

EXECUTIVE COMMITTEE.

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DANIEL UNDERHILL,	RACHEL T. JACKSON,
JOHN D. HICKS,	MARTHA G. McILVAIN,
CLEMENT M. BIDDLE,	JANE P. DOWNING,
ISAAC H. CLOTHIER,	HANNAH W. HAYDOCK,
EDWARD TAYLOR,	ANNIE COOPER,
JOSEPH WHARTON,	ANNA M. FERRIS,
JAMES V. WATSON,	MARY T. LONGSTRETH,
M. FISHER LONGSTRETH, <i>Ex-officio</i> .	

# Officers of Government and Instruction.

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## FACULTY OF GOVERNMENT.

EDWARD H. MAGILL, A.M.,  
PRESIDENT.

PHEBE W. FOULKE,  
MATRON.

EUGÈNE PAULIN, A.M.,  
PROFESSOR OF THE LATIN AND FRENCH LANGUAGES.

MARIA L. SANFORD,  
PROFESSOR OF HISTORY.

ARTHUR BEARDSLEY, C.E.,  
PROFESSOR OF MECHANICS AND ENGINEERING.

WILLIAM HYDE APPLETON, A.M. LL.B.,  
PROFESSOR OF THE GREEK AND GERMAN LANGUAGES.

SUSAN J. CUNNINGHAM,  
PROFESSOR OF MATHEMATICS.

THOMAS S. FOULKE,  
SUPERINTENDENT.

## NON-RESIDENT PROFESSORS.

JOSEPH LEIDY, M.D. LL.D.,

PROFESSOR OF NATURAL HISTORY.

JOSEPH THOMAS, M.D. LL.D.,

PROFESSOR OF ENGLISH LITERATURE.

---

## INSTRUCTORS.

\*SAMUEL S. GREEN, M.S.,

ASSISTANT PROFESSOR OF PHYSICS.

ELIAS H. BARTLEY, B.S.,

ASSISTANT PROFESSOR OF CHEMISTRY.

SUSAN W. JANNEY,

INSTRUCTOR IN PENMANSHIP AND BOTANY.

MARY L. AUSTIN,

INSTRUCTOR IN LATIN.

ELIZABETH PAULIN,

INSTRUCTOR IN FRENCH.

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\*During his absence in Germany, his duties are performed by HENRY R. RUSSELL.



ELIZABETH C. MILLER, A.B.,  
INSTRUCTOR IN FRENCH AND IN ENGLISH BRANCHES.

ESTHER T. MOORE, A.B.,  
INSTRUCTOR IN MATHEMATICS.

JOHN B. BOOTH, A.B.,  
INSTRUCTOR IN ENGLISH BRANCHES.

MARY G. PROCTER,  
INSTRUCTOR IN GERMAN AND IN ENGLISH BRANCHES.

ELLEN M. GRISCOM,  
INSTRUCTOR IN FREE-HAND DRAWING.

KATHARINE L. ROCKWELL,  
LIBRARIAN.

# Students.

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## SENIOR CLASS.

### CLASSICAL SECTION.

CORSON, NORMAN B.	Norristown, Pa.
MAGILL, EUDORA	Swarthmore, Pa.
NORTON, JESSE R.	Ironton, O.
WILLIAMS, CARROLL R.	New Hope, Pa.
YEATMAN, M. FLORENCE	Fairville, Pa.

### ENGINEERING SECTION.

BUNTING, JOSEPH T.	Philadelphia, Pa.
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## JUNIOR CLASS.

### CLASSICAL SECTION.

BURR, CAROLINE E.	Germantown, Pa.
DAVIS, MAYBELL P.	Providence, R. I.
DAWSON, HOWARD	Plainfield, N. J.
GLEIM, TACY A.	Lebanon, Pa.
HALLOWELL, MARY P.	Horsham, Pa.
HAWKINS, CHARLES A.	Fawn Grove, Pa.
HUNT, REBECCA S.	Philadelphia, Pa.
MARTIN, EDWARD	Philadelphia, Pa.
WILLETS, ISAAC D.	Flushing, L.I.

### MODERN CLASSICAL SECTION.

HOLCOMB, WILLIAM P.	Newtown, Pa.
JACKSON, ANNA E.	Kennett Square, Pa.

## ENGINEERING SECTION.

HALL, WILLIAM J. . . . .	West Chester, Pa.
JOHNSON, LLEWELLYN H. . . . .	West Orange, N. J.
ROBERTS, ISRAEL . . . . .	Fellowship, N. J.
SEAMAN, WILLIAM . . . . .	Brooklyn, L. I.

## CHEMICAL SECTION.

JACKSON, ADALINE B. . . . .	Boston, Mass.
PALMER, FRANCIS J. . . . .	Brooklyn, L. I.
SHOEMAKER, C. HARRY . . . . .	Philadelphia, Pa.

## SOPHOMORE CLASS.

## CLASSICAL SECTION.

DORSEY, FRANCES . . . . .	Baltimore, Md.
FENDER, WILLIAM P. . . . .	Ralston, Pa.
FERRIS, W. LEA . . . . .	Wilmington, Del.
FITCH, JOSEPH . . . . .	Flushing, L. I.
HOPPER, LESLEY . . . . .	Baltimore, Md.
KEMP, MARIE A. . . . .	Harrisburg, Pa.
MOORE, MARY L. . . . .	Sandy Spring, Md.
PANCOAST, WILLIAM T. . . . .	San Antonio, Texas.
PAULIN, AMÉLIE A. . . . .	Swarthmore, Pa.
RHOADS, JACOB Z. . . . .	Pine Grove, Pa.
WHITE, JOSEPHINE . . . . .	Yardleyville, Pa.

## MODERN CLASSICAL SECTION.

FURNAS, ELIZABETH . . . . .	Waynesville, O.
HAINES, FRANCENIA . . . . .	Richmond, Ind.
MILLER, CHARLES R. . . . .	North Point, Pa.
WOODNUTT, ABBIE M. . . . .	Richmond, Ind.

## SCIENTIFIC SECTION.

BAKER, ARTHUR E. . . . .	Toledo, O.
COLES, ISAAC R. . . . .	Glen Cove, L. I.
LEEDS, CHARLES S. . . . .	Richmond, Ind.
LIPPINCOTT, ELISHA E. . . . .	Long Branch, N. J.
MCCOMB, S. CRAIG . . . . .	Columbus, N. J.
PIERCE, HENRY . . . . .	Pawling, N. Y.

## FRESHMAN CLASS.

## CLASSICAL SECTION.

BROOMALL, HENRY L.	. . . . .	Media, Pa.
CLARKE, WILLIAM H.	. . . . .	Chicago, Ill.
COCKS, MARY ANN	. . . . .	Cornwall, N. Y.
CONROW, HOWARD F.	. . . . .	Wilmington, Del.
CONSTABLE, ANNE E.	. . . . .	Philadelphia, Pa.
DAWSON, COLMAN	. . . . .	Plainfield, N. J.
DETRICK, A. ELIZA	. . . . .	Baltimore, Md.
DETRICK, WILLIAM H.	. . . . .	Baltimore, Md.
DUNCAN, LYDIA F.	. . . . .	Easton, Md.
HALL, FLORENCE	. . . . .	West Chester, Pa.
HALLOWELL, EDITH	. . . . .	Sandy Spring, Md.
HILLMAN, MYRA T.	. . . . .	Washington, D. C.
HOUGH, EMILY L.	. . . . .	Swarthmore, Pa.
KIRK, FANNY R.	. . . . .	Philadelphia, Pa.
LAING, GEORGE T.	. . . . .	Philadelphia, Pa.
LAWTON, ALBERT R.	. . . . .	Skaneateles, N. Y.
MADDOCK, WILLIAM W.	. . . . .	Chester, Pa.
MAGILL, GERTRUDE B.	. . . . .	Swarthmore, Pa.
MOORE, THOMAS L.	. . . . .	Sandy Spring, Md.
NEEDLES, EMMA S.	. . . . .	Baltimore, Md.
TURTON, JOHN	. . . . .	New York City, N. Y.
WILLETS, FANNIE A.	. . . . .	Roslyn, L. I.
WILLIAMS, AGNES B.	. . . . .	New Hope, Pa.

## MODERN CLASSICAL SECTION.

BUNTING, ANNA M.	. . . . .	Darby, Pa.
GOULD, ZOE	. . . . .	Newark, N. J.
HOLGATE, E. JOSEPHINE	. . . . .	Brooklyn, L. I.
MATTHEWS, SARAH H.	. . . . .	Cockeysville, Md.
MCCOMB, MATTIE J.	. . . . .	Columbus, N. J.
WALTON, ISABELLA F.	. . . . .	London Grove, Pa.
WEBSTER, ANNIE F.	. . . . .	Norristown, Pa.
WILLITS, SAMUEL	. . . . .	Maiden Creek, Pa.

## SCIENTIFIC SECTION.

ASBURY, HARRY F. . . . .	New York City, N. Y.
FIELD, WILLIAM D. C. . . . .	Brooklyn, L. I.
HIGGINS, ROBERT B. . . . .	Rockville, Md.
KEISER, EDWARD H. . . . .	Hokendauqua, Pa.
MARCHER, ROBERT J. . . . .	High Bridge, N. Y.
POUND, ROBINSON . . . . .	Plainfield, N. J.
PRICE, HARRIE B. . . . .	Upper Lehigh, Pa.
THORNE, HOWARD E. . . . .	Yonkers, N. Y.
WALKER, CHARLES P. . . . .	New York City, N. Y.
WOOD, HENRY S. . . . .	Bristol, Pa.

## SUMMARY.

## CLASSICAL DEPARTMENT.

Senior Class . . . . .	5
Junior Class . . . . .	9
Sophomore Class . . . . .	11
Freshman Class . . . . .	24

## MODERN CLASSICAL DEPARTMENT.

Junior Class . . . . .	2
Sophomore Class . . . . .	4
Freshman Class . . . . .	8

## SCIENTIFIC DEPARTMENT.

Senior Class . . . . .	1
Junior Class . . . . .	7
Sophomore Class . . . . .	6
Freshman Class . . . . .	10
Total, . . . . .	87



# CLASSICAL DEPARTMENT.

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## FACULTY OF INSTRUCTION.

EDWARD H. MAGILL, A. M., *President*.  
PROFESSOR PAULIN, *Latin and French*.  
PROFESSOR SANFORD, *History and Elocution*.  
PROFESSOR APPLETON, *Greek, German and Early English*.  
PROFESSOR CUNNINGHAM, *Mathematics*.  
PROFESSOR GREEN, *Physics*.  
PROFESSOR BARTLEY, *Chemistry*.  
PROFESSOR LEIDY, *Zoology, Comparative Anatomy, Comparative Physiology, Mineralogy and Geology*.  
PROFESSOR THOMAS, *English Literature*.  
SUSAN W. JANNEY, *Instructor in Botany*.  
MARY L. AUSTIN, *Instructor in Latin*.  
ELIZABETH PAULIN, *Instructor in French*.  
MARY G. PROCTER, *Instructor in German*.  
ELIZABETH C. MILLER, *Instructor in Composition*.

## CONDITIONS OF ADMISSION.

Every applicant for admission must submit to the President satisfactory testimonials of good moral character; and students coming from another college must present certificates of honorable dismissal from the institution left.

Examinations for admission will be held on Third, Fourth, and Fifth-days, the 11th, 12th and 13th of Ninth month, 1877. Candidates must present themselves at the college at two o'clock, P. M., on Third-day, the 11th of Ninth month.

To secure places, applications for admission for the next scholastic year should be made, as early as possible, by letter to the President.

Candidates for admission to the Freshman Class will be examined on the following subjects and text-books, or their equivalents:

**Latin.**—Harkness's Grammar; Harkness's Reader; Harkness's Composition, first thirty lessons; Cæsar's Gallic War, first three books; and Virgil's *Æneid*, first two books.

**French.**—Magill and Paulin's First Lessons; Magill's Grammar; Magill's Introductory Reader.

**Mathematics.**—Arithmetic; Algebra, to Equations of the Second Degree; Davies' Legendre's Geometry, first three books.

**English.**—English Grammar and Spelling; Modern Geography, Descriptive and Physical; Ancient Geography (Baird's Classical Manual); Physics (Rolfe and Gillet's Natural Philosophy); Barnes's History of the United States; Anderson's History of England; Smith's History of Greece.

Candidates for advanced standing must first be examined for admission to the Freshman Class; then in all the *required* studies already gone over by the class for which they offer themselves, and in as many *elective* studies as they would have pursued if they had entered at the beginning of the course.

Especial attention is called to the importance of a thorough preparation in the studies required for admission. The want of this is a serious source of embarrassment to future progress, and is rarely repaired by subsequent study. The work is arranged for those only who enter classes thoroughly prepared.

Students are not considered as regular members of the College until, after a residence of at least four months, they have been admitted to matriculation on satisfactory evidence of good moral character. Before this they are students on probation.

### COURSE OF STUDY.

The course of study in this department has been very carefully arranged with reference to *general culture*; and it is also believed to be the best foundation for a subsequent technical course of education, in any department which may be chosen. Those whose time and means will permit are earnestly advised to add to this course, after graduation, the last two years of one of the departments of our scientific course. It will be observed that a due proportion of scientific studies are introduced as essential parts of the classical course.

The MODERN CLASSICAL COURSE, for completing which the degree of BACHELOR OF LITERATURE is conferred, is the same as the following, except that a fuller course in Modern Languages, and one in Early English, may be substituted for the Ancient Languages.

The studies of each class in any course are among the electives for students *of that class* in any other course, if they are prepared to pursue them, and pass the necessary preliminary examination.

## FRESHMAN CLASS.

	<i>No of Ex. per week.</i>
Latin.—Harkness's Grammar and Latin Prose Composition; Virgil's <i>Æneid</i> , Books III., IV.; Livy, Book XXI - -	4
French.—Magill's Grammar; <i>Siège de la Rochelle</i> - -	2
German.—Otto's Conversation Grammar; <i>Der Neffe als Onkel</i> -	3
Mathematics.—Olney's Algebra, through Quadratic Equations; Davies' Legendre's Geometry, Books IV.—VI. - -	3
History.—Liddell's History of Rome; Schmitz's Manual of Ancient History; Student's Gibbon. - - -	3
English Literature.—Lectures on English and General Literature, (once a week first half year,) - - - -	$\frac{1}{2}$
Natural History.—Zoology; Comparative Anatomy; Comparative Physiology (Lectures) - - - - -	1
Elocution.—Murdock and Russell's Vocal Culture; Coates's Speaker; Selections from English Classical Authors; Declamations - - - - -	1
Rhetoric and Composition.—Hart's Rhetoric; Essays - -	1

## ELECTIVE STUDIES.

Greek.—Goodwin's Grammar; Xenophon's <i>Anabasis</i> - -	4
Early English.—Required instead of Latin in the Modern Classical Course - - - - -	2

## SOPHOMORE CLASS.

	<i>No. of Ex. per week.</i>
Latin.—Harkness's Grammar and Latin Prose Composition; Cicero's Orations; Livy, Book XXII - - -	4
French.—Magill's Grammar, Fénelon's <i>Télémaque</i> ; Dumas' Napoléon - - - - -	2
German.—Otto's Conversation Grammar; <i>Wilhelmi's Einer muss heirathen</i> ; Lessing's <i>Minna von Barnhelm</i> -	3
Mathematics.—Chauvenet's Plane Trigonometry; Davies' Le- gendre's Geometry, Books VII.—IX. - - -	2
English Literature.—Lectures on English and General Litera- ture - - - - -	3
Physics.—Hill's Stewart's Physics; Lectures (until 4th month, 1st.) - - - - -	2
Botany.—(After 4th month, 1st.) - - - - -	2
Natural History.—Zoology; Comparative Anatomy; Compar- ative Physiology (Lectures:) Mineralogy, Geology and Botany (once a week last half year,) - - -	1½
Elocution.—Selections from Classical English Authors; Decla- mations, Original and Selected - - - - -	1
Rhetoric and Composition.—Quackenbos's Rhetoric; Essays	1

## ELECTIVE STUDIES.

Greek.—Goodwin's Grammar; Xenophon's <i>Anabasis</i> , Homer's <i>Iliad</i> , Greek Prose Composition; Goodwin's Greek Moods and Tenses - - - - -	4
History.—Student's History of France; History of England (Lectures) - - - - -	2
Early English.—Required instead of Latin in the Modern Classical Course - - - - -	2

## JUNIOR CLASS.

	No. of Ex. per week.
Latin.—Horace's Odes; Cicero's De Claris Oratoribus, De Senectute, and De Amicitia - - - -	4
* English Literature.—Lectures on English and General Literature (once a week first half year) - -	$\frac{1}{2}$
Political Economy.—Principles of Political Economy, Mill; Carey;—Lectures - - - -	2
Chemistry.—Inorganic Chemistry—Lectures - - - -	2
Natural History.—Lectures on Mineralogy, Geology and Botany (once a week last half year) - -	$\frac{1}{2}$
Elocution.—Declamations, Original and Selected - -	1
Rhetoric and Composition.—Blair's Rhetoric; Abbott's Lessons in English; Essays - - - -	1

## ELECTIVE STUDIES.

(Two to be Chosen.)

French.—Noël and Chapsal's Grammaire Abrégée; Fleury's Histoire de France; Magill's Prose and Poetry - -	4
German.—Schiller's Maria Stuart and William Tell; Eichen-dorff's Aus dem Leben eines Taugenichts; Exercises in writing German - - - -	3
Greek.—Selections from Greek Historians; Plato's Apology and Crito - - - -	4
Mathematics.—Chauvenet's Spherical Trigonometry; Olney's Higher Algebra - - - -	4
History.—History of the United States (Lectures); History of Modern Europe (Lectures) - - - -	2

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\*Required if not taken in the Freshman year.



## SENIOR CLASS.

	No. of Ex. per week.
<b>Latin.</b> —Horace's Satires and Epistles; Tacitus, Agricola and Germania; Selections from Juvenal - - -	4
<b>History.</b> —Guizot's History of Civilization; De Tocqueville's Democracy in America - - -	2
<b>Natural History.</b> —Lectures on Mineralogy, Geology, and Botany (once a week last half-year) - - -	$\frac{1}{2}$
<b>Elocution.</b> —Original Orations - - -	1
<b>Rhetoric and Composition.</b> —Campbell's Philosophy of Rhetoric; Essays - - -	1

## ELECTIVE STUDIES.

(Three to be chosen.)

<b>French.</b> —Duruy's Histoire Grecque; Duruy's Histoire Romaine; Voltaire's Louis XIV; Madame de Staël's L'Allemagne; Compositions - - -	4
<b>German.</b> —Schiller's Geschichte des Abfalls der vereinigten Niederlande; Lessing's Emilia Galotti; Goethe's Egmont and Faust; Exercises in writing German; History of German Literature (Lectures) - - -	4
<b>Greek.</b> —Sophocles' Antigone; Euripides' Alcestis; Demosthenes' De Corona; History of Greek Literature (Lectures) - - -	4
<b>Mathematics.</b> —Olney's Analytical Geometry; Olney's Differential and Integral Calculus - - -	4
<b>Chemistry.</b> —Experimental work in the Laboratory - - -	4
<b>Astronomy.</b> —Loomis's Astronomy; Chauvenet's Spherical and Practical Astronomy - - -	4

# SCIENTIFIC DEPARTMENT.

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## FACULTY OF INSTRUCTION.

EDWARD H. MAGILL, A. M., *President.*  
PROFESSOR PAULIN, *Latin and French.*  
PROFESSOR SANFORD, *History and Elocution.*  
PROFESSOR BEARDSLEY, *Mechanics and Engineering.*  
PROFESSOR APPLETON, *Greek, German and Early English.*  
PROFESSOR CUNNINGHAM, *Mathematics.*  
PROFESSOR GREEN, *Physics.*  
PROFESSOR BARTLEY, *Chemistry.*  
PROFESSOR LEIDY, *Zoology, Comparative Anatomy, Comparative Physiology, Mineralogy and Geology.*  
PROFESSOR THOMAS, *English Literature.*  
SUSAN W. JANNEY, *Instructor in Botany.*  
ELIZABETH PAULIN, *Instructor in French.*  
MARY G. PROCTER, *Instructor in German.*  
ELIZABETH C. MILLER, *Instructor in Composition.*

## CONDITIONS OF ADMISSION.

The conditions of admission to the Scientific Department are the same as those for admission to the Classical Department, except that Latin is not required, although a knowledge of Latin accidence and a sufficient knowledge of the construction to read easy Latin Prose is earnestly recommended. It is also very desirable that all applicants for admission to this department should have had at least one year's instruction in Free-hand Linear Drawing.

## COURSES OF STUDY.

The Scientific Department comprises two distinct courses, leading to two degrees; the Chemical Course and the Engineering Course, in both of which care has been taken to secure *general culture*, and not to make students of this department merely chemists or engineers.

### CHEMICAL COURSE.

This comprises four years, and is intended to prepare students to fill positions as teachers or analytical chemists, and to provide such a general knowledge of chemical science, and its applications to the arts, for those who wish to take up the special problems of technical chemistry, as will afford a good basis for their subsequent investigations.

The department is also open to those students, of maturer age, whose time is limited, and who wish to prepare themselves for positions requiring a knowledge of chemistry.

A partial course in medical chemistry has been arranged as an elective, for the benefit of those who intend to study medicine after graduation.

The Laboratory has been fitted up in the most approved manner to accommodate twenty-four students at a time; each desk being provided with running water, gas, and sink. The Laboratory is heated by steam, and furnished with hoods, sand, steam and air baths, furnaces, balances, a good microscope, spectroscope, &c., suitable for carrying on all ordinary Laboratory work.

Students will be charged only for chemicals and apparatus actually used up. No charge is made for gas.

### ENGINEERING COURSE.

This course, which, for the first two years, is identical with the chemical course, is intended to furnish a good foundation in Mathematics, Physics, Mechanics, and Drawing, for the student of Civil or Mechanical Engineering. Its graduates will be prepared to become immediately useful in the office or field, in subordinate positions, and after a fair amount of practice to design and take charge of important works. The course is also open to those students whose time is limited, and who do not intend to graduate, by whom partial courses in Surveying and Draughting can be pursued with great practical advantage.

The College is well provided with the necessary field instruments, and each student is made familiar with their uses and management. The Draughting room is well lighted from above, and is provided with the Worcester Adjustable Drawing Tables, models, drawings, &c.

Connected with the department is a machine shop, in which a certain amount of practice is required of each student, who thus becomes acquainted with the uses of the various tools, and learns to avoid errors in designing, by being required to execute, from his own drawings, parts of structures or of machinery. The shop is well provided with excellent tools, including a screw-cutting engine lathe, iron planer, &c. A vertical engine and boiler of four horse power, built for the department, is used both for running the machinery, and for class illustration and instruction.

## FRESHMAN CLASS.

	<i>No. of Ex. per Week.</i>
<b>Chemistry.</b> —Inorganic Chemistry; Lectures . . . . .	4
<b>Graphics.</b> —Construction of Plane Problems in Geometry; use of Drafting Instruments, India Ink, and Colors . . . . .	5
<b>Mathematics.</b> —Olney's Algebra, through Quadratic Equations; Davies' Legendre's Geometry, Books IV.—VI.; Chau- venet's Plane Trigonometry . . . . .	4
<b>French.</b> —Magill's Grammar; Siège de la Rochelle . . . . .	2
<b>German.</b> —Otto's Conversation Grammar; Der Neffe als Onkel . . . . .	3
<b>History.</b> —Liddell's History of Rome; Schmitz's Manual of Ancient History; Student's Gibbon. . . . .	3
<b>English Literature.</b> —Lectures on English and General Litera- ture, (once a week first half year) . . . . .	$\frac{1}{2}$
<b>Natural History.</b> —Zoology; Comparative Anatomy; Compara- tive Physiology (Lectures) . . . . .	1
<b>Elocution.</b> —Murdock and Russell's Vocal Culture; Coates's Speaker; Selections from English and Classical Authors; Declamations . . . . .	1
<b>Rhetoric and Composition.</b> —Hart's Rhetoric; Essays . . . . .	1

## SOPHOMORE CLASS.

	<i>No. of Ex. per week.</i>
<b>Chemistry.</b> —Laboratory practice; Qualitative Analysis—Thorpe; Blow-pipe Analysis and Determinative Mineralogy—El- derhorst (revised) . . . . .	6
<b>Descriptive Geometry.</b> —Projection Drawing; Orthographic projections of the Point, Right Line, and Plane; with Drawing, Tinting, and Shading . . . . .	5
<b>Physics.</b> —Hill's Stewart's Physics, Lectures (until 4th mo. 1st.)	2
<b>Botany.</b> —(After 4th mo. 1st.) . . . . .	2
<b>Mathematics.</b> —Davies' Legendre's Geometry, Books VII. IX.: Olney's Analytical Geometry; Olney's Differential and Integral Calculus . . . . .	4
<b>French.</b> —Magill's Grammar; Fénelon's <i>Télémaque</i> ; Dumas' Napoléon . . . . .	2
<b>Surveying.</b> —Gillespie and Lectures . . . . .	2
<b>German.</b> —Otto's Conversation Grammar; Wilhelmi's <i>Einer muss heirathen</i> . . . . .	3
<b>English Literature.</b> —Lectures on English and General Litera- ture . . . . .	3
<b>Natural History.</b> —Zoology; Comparative Anatomy; Compara- tive Physiology (Lectures): Mineralogy, Geology and Botany, (once a week last half year) . . . . .	1½
<b>Elocution.</b> —Selections from Classical English Authors; De- clamations, Original and Selected . . . . .	1
<b>Rhetoric and Composition.</b> —Quackenbos's Rhetoric; Essays	1



## JUNIOR CLASS.

1. *Chemical Course.*No. of  
Ex. per week.

Chemistry.— <i>Practical</i> —Quantitative Analysis; Mineral Analysis; Spectrum Analysis; Blow-pipe Analysis (Lectures)	18
Chemistry.— <i>Theoretical</i> —Cooke's Chemical Philosophy . . .	3
Physics.—Acoustics; Optics; Heat; Electricity . . .	2
*Mathematics.—Chauvenet's Spherical Trigonometry; Olney's Higher Algebra . . . . .	4
Political Economy.—Principles of Political Economy; Mill; Carey;—Lectures . . . . .	1
†English Literature.—Lectures on English and General Literature (once a week first half year) . . . . .	$\frac{1}{2}$
Natural History.—Lectures on Mineralogy, Geology and Botany (once a week last half year) . . . . .	$\frac{1}{2}$
Essays upon Chemical Subjects	

11. *Engineering Course.*

Engineering.— <i>Geodesy</i> —Theory, Adjustment, and use of Engineering Field Instruments; Farm Surveying; Leveling; Topographical, Triangular, and Hydrographical Surveying	2
Mechanics.—Analytical Mechanics of Solids and Fluids . . .	2
Physics.—Acoustics, Optics, Heat, Electricity . . . . .	2
Descriptive Geometry.—Warped Surfaces and Intersections; Shades, Shadows, and Perspective; with Drawing and Applications . . . . .	4
Graphics.—Topographical, Structure, and Machine drawing; Principles of Mechanism; Visits to and Sketches of Special Machinery and Structures . . . . .	8
*Mathematics.—Chauvenet's Spherical Trigonometry; Olney's Higher Algebra . . . . .	4
Political Economy.—Principles of Political Economy; Mill; Carey;—Lectures . . . . .	1
English Literature.—Lectures on English and General Literature (once a week first half year) . . . . .	$\frac{1}{2}$
Natural History.—Lectures on Mineralogy, Geology and Botany (once a week last half year) . . . . .	$\frac{1}{2}$
Practical Exercises in Engineering Field Work; Essays upon, and Sketches of Structures and Machines.	

\*French or German may be substituted.

†Required if not taken in the Freshman year.

## SENIOR CLASS.

I. *Chemical Course.*

	<i>No of Ex. per week.</i>
<b>Chemistry.</b> — <i>Practical</i> —Quantitative Analysis continued; Volumetric Analysis; Organic Analysis; Special Determinations; Assaying; Chemical Preparations . . . . .	28
<b>Chemistry.</b> — <i>Theoretical</i> —Lectures on Organic and Technical Chemistry . . . . .	2
<b>Natural History.</b> —Lectures on Mineralogy, Geology and Botany (once a week last half year) . . . . .	$\frac{1}{2}$
Essays upon original work and general chemical subjects.	

II. *Engineering Course.*

<b>Engineering.</b> — <i>Road Engineering</i> —Theory and Practice; <i>Constructions</i> —Stability of Structures, Building Materials, Foundations and Superstructures, Bridge Engineering . . . . .	4
<b>Mechanics.</b> — <i>Physical Mechanics</i> —Friction and other resistances, Stress and Strength of Materials, Practical Hydraulics, Practical Pneumatics; <i>Machines</i> —General Theory of Machines, Theory of Prime Movers . . . . .	4
<b>Graphics.</b> —Plans, Profiles and Sections of Road Surveys; Machine and Structural Drawing . . . . .	12
<b>Natural History.</b> —Lectures on Mineralogy, Geology and Botany (once a week last half year) . . . . .	$\frac{1}{2}$
<b>Practical Exercises in Field Work.</b> —Essays and Reports upon Machines, Structures and Processes.	

## DEGREES.

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THE Degree of A. B. is conferred upon students who complete the Classical Course, and pass the examinations in the same.

The Degree of B. L. is conferred upon students who complete the Modern Classical Course (see P. 15), and pass the examinations in the same.

The Degree of B. S. is conferred upon students who complete either of the Scientific Courses, and pass the examinations in the same.

The Degree of A. M. will be given, three years after graduation, to all Bachelors of Arts who shall have engaged, during that period, in professional or literary studies, and who shall present an acceptable thesis.

The Degree of M. L. will be given, three years after graduation, to all Bachelors of Literature who shall have engaged, during that period, in professional or literary studies, and who shall present an acceptable thesis.

The Degree of M. S. will be given, three years after graduation, to all Bachelors of Science of the Chemical Course who shall have engaged, during that period, in professional or scientific studies, and who shall present an acceptable thesis upon subjects pertaining to Chemistry or Physics.

The Degree of C. E. will be given, three years after graduation, to all Bachelors of Science of the Engineering Course who shall have engaged, during that period, in professional or scientific studies, and who shall present an acceptable thesis upon subjects pertaining to Civil Engineering.

Applications for the Second Degree in any course must be made, and the thesis presented at least three months before commencement.

The Second Degree will also be conferred upon those Bachelors of Arts, of Literature, or of Science who, as Resident Graduates, shall continue their studies under the advice and direction of the Faculty for one year after graduation, and pass the examinations in the same.

# GENERAL INFORMATION.

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## *SITUATION.*

SWARTHMORE COLLEGE is situated on the West Chester and Philadelphia Railroad, ten miles from Philadelphia. Cars leave the depot at Thirty-first and Chestnut Streets, West Philadelphia, ten times daily.

## *POST-OFFICE ADDRESS AND CITY OFFICE.*

The Post-Office address is SWARTHMORE, DELAWARE Co., PA. Express packages may be sent to this address, or, *if small*, may be left in care of Friends' Book Association, 706 Arch Street, Philadelphia.

## *LIBRARIES.*

The Libraries of the College now contain over two thousand volumes. Each department of study is supplied with a good and steadily increasing library of reference. The General Library is accessible to all the students, according to the rules established by the Faculty, and is open once a week during term-time for the delivery of reading books, and daily for the delivery of books of reference needed by the students. It is open at all times to teachers and members of the household.

Friends' Historical Library of Swarthmore, founded by Anson Lapham, which contains a small but increasing collection of Friends' books, photographs of representative Friends, and manuscripts relating to the Society and its history, is at all times accessible to teachers, students, and members of the household.

## *PHYSICAL CULTURE.*

Regular daily exercise in the open air is required of all; for which the extensive grounds connected with the College afford

ample facilities. The gymnasium, which is well supplied with suitable apparatus, is open every day for the voluntary exercise of the students.

### RELIGIOUS EXERCISES.

While care is taken to inculcate the doctrine that religion is a matter of practical daily life, and is not confined to the observance of set forms or the promulgation of religious tenets, the regular assembling for religious purposes is carefully observed. On First-day morning a religious meeting is held, attended by students, teachers, and members of the household, and occasionally by visiting Friends. The meeting is preceded by First-day school exercises, consisting of the recitation of passages of Scripture prepared by members of the different classes, and the reading of a portion of Scripture selected for the exercises of the following week. The daily exercises are opened by a general meeting for reading selected portions of Scripture, or other suitable books, and imparting such moral lessons as circumstances seem to require, followed by a period of silence before entering upon the duties of the day.

### VISITING AND LEAVE OF ABSENCE.

Parents and guardians are especially requested not to visit their children at the College on the FIRST DAY OF THE WEEK nor to ask permission for them to leave the College more than once a month.

Leave of absence cannot be granted without a written request of parents or guardians, while requests should, in all cases, be accompanied by reasons satisfactory to the Faculty.

Students may be visited, on week-days, by parents or guardians, or by near relatives or others approved by parents or guardians; but general visiting is discouraged. *Students must not be interrupted in their studies or recitations at any time.*

All persons who are interested in education, and who are desirous of examining the methods of instruction and discipline at Swarthmore, will be welcome at any time, and should, when convenient, communicate with the President upon the subject in advance.

### COMMENCEMENTS AND VACATIONS.

The College year begins on the second Third-day of Ninth month, and closes with Commencement day, which occurs on the third Third-day of Sixth month.



Students are not admitted, for a period terminating earlier than the current college year, but, when vacancies exist, may enter at any time during the year, if prepared to join existing classes.

Besides the summer vacation there will be a vacation of one week at Christmas.

### *OUTFIT.*

Although no form of dress is prescribed for either sex, such simple attire as is appropriate to school-life is earnestly recommended. Ear-rings, bracelets, necklaces, and elaborately trimmed dresses are prohibited.

Students should be supplied with six towels, six napkins, two clothes-bags, a wrapper, slippers, umbrella, and the requisite toilet articles. Girls must also be provided with gymnasium dresses. Every article must be marked with the full name of the owner.

### *USE OF TOBACCO.*

The use of Tobacco being strictly prohibited, those addicted to its use, unless prepared to renounce it entirely, should not apply for admission.

### *EXPENSES.*

FOR RESIDENT STUDENTS the price of board and tuition is \$350 per year, of which \$200 is payable in advance, and \$150 on the first of First month. A proportionate deduction is made to those students who enter after the opening of the college year.

FOR DAY SCHOLARS the price is \$200 per year, of which one-half is payable in advance, and the remainder on the first of First month. The day scholars dine with the resident students.

Books are furnished for the use of students without expense, but they buy their own stationery and drawing implements. Students in Practical Chemistry pay for the chemicals which they use in the laboratory. No additional charge is made in case of sickness unless extra expense is incurred.

THERE ARE NO EXTRA CHARGES.

The price being made as low as experience shows to be compatible with prudence, while many of our expenses are annual in their character, and teachers and other officers, at fixed yearly salaries, must be engaged in proportion to the number of students entered, we cannot, in case of withdrawals, return the full proportionate

amount paid without loss. When the connection of a student with the College shall terminate before the end of the period for which payment has been made, by sickness, or any other cause, approved by the Faculty, the student may have the privilege of sending an approved substitute, for the unexpired term, or may apply, in writing, to the Treasurer, and a return will be made at the rate of \$25 per month, from the date of said application or written notice that the place is vacated.

#### *PAYMENTS.*

Payments are to be made by check or draft to the order of ROBERT BIDDLE, Treasurer, No. 511 Commerce Street, Philadelphia.



# PREPARATORY SCHOOL.

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## *GENERAL STATEMENT.*

This school is intended to prepare students for the Classical and Scientific Departments of the College, or to furnish a good practical education to those desiring a shorter course. Most of the studies pursued are required of all, but few being optional, as experience has clearly shown that young students make much more satisfactory progress when pursuing a regularly required course, even for a single year, without any idea of graduation, than when they select all their studies for themselves. The course of study in this school, while it is an essential preparation for the two departments of the College, is also believed to be the best training for those whose means and circumstances require that they should finish their studies in the Preparatory School, or before reaching the end of the College course. Attention is invited to the course of study as here arranged, and the various Preparatory Schools among Friends throughout the country are requested to conform to it, as far as practicable, and prepare students to enter our Freshman Class, either in the classical or the scientific course. To secure this end, a thorough mastery of the elementary principles of the *subject* taught, and not a mere knowledge of the text-books required, is most earnestly recommended. Subsequent study can rarely, if ever, atone for deficient preparation.

## *ORGANIZATION.*

This School is at present divided into three classes, A, B, and C. Classes A and B are divided into classical and scientific sections, preparing for these respective departments in the college.

## *GOVERNMENT AND INSTRUCTION.*

The students of the Preparatory School are under the same general management as the College classes. With a few exceptions, the same general rules are applicable to both, and the students of

this school receive instruction from teachers employed especially for this purpose, and also from professors and instructors of the College.

### *EXPENSES, ETC.*

The expenses of students of this school are the same as those of students of the College classes, and the various remarks under the head of GENERAL INFORMATION\* in the College Catalogue are applicable alike to the College and the Preparatory School.

### *CONDITIONS OF ADMISSION TO THE PREPARATORY SCHOOL.*

Applicants for admission must be at least thirteen years old, and should submit to the President, from their last teacher, satisfactory testimonials of good moral character.

Examinations for admission will be held on Third, Fourth, and Fifth-days, the 11th, 12th, and 13th of Ninth month, 1877. Candidates must present themselves at two o'clock, P. M. on Third-day, the 11th of Ninth month. To secure places, applications for admission for the next scholastic year should be made, as early as possible, by letter to the President.

Candidates for admission to class C will be examined as follows:

In Elements of English Grammar, embracing a knowledge of the Parts of Speech, and their uses; Reading and Spelling; Geography of the United States; Arithmetic, through Decimal Fractions.

None who are not sufficiently advanced in their studies to undergo this examination should present themselves for admission.

Candidates for the advanced classes of the Preparatory School will be further examined in the studies of the classes below that which they propose to enter.

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\*See pages 26-29.

## COURSES OF STUDY.

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The only elective studies in the Preparatory School are as follows :

Natural History (lectures), elective in all the classes ;

Latin and French, elective in Class C.

### CLASS C.

	<i>No. of Ex. per Week.</i>
<b>Arithmetic.</b> —Brooks's Normal Written and Brooks's Normal Mental Arithmetic, through Percentage . . . . .	4
<b>Geography.</b> —Guyot's Grammar School Geography ; Map Draw- ing . . . . .	3
<b>Grammar.</b> —Swinton's Language Lessons . . . . .	3
<b>History.</b> —United States,—Lectures . . . . .	2
<b>Reading and Speaking.</b> —Phonetic Spelling, Enunciation of Words ; Monroe's Fifth Reader ; Declamations . . . . .	3
<b>Spelling.</b> —Leach's Speller, and Dictations . . . . .	2
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-hand Drawing</b> . . . . .	2

### *Elective Studies.*

<b>Latin.</b> —Harkness's Introductory Latin Book . . . . .	2
<b>French.</b> —Magill and Paulin's First Lessons in French . . . . .	2

## CLASSICAL DEPARTMENT OF THE PREPARATORY SCHOOL.

## CLASS B.

	<i>No. of Ex. per Week.</i>
Latin.—Harkness's Grammar and Reader; Cæsar begun . . . . .	4
French.—Magill and Paulin's First Lessons in French; Magill's Introductory French Reader . . . . .	3
Arithmetic.—Brooks's Normal Written and Brooks's Normal Mental Arithmetic, completed . . . . .	3
Geography.—Warren's Physical Geography . . . . .	2
History.—Barnes's History of the United States; Anderson's History of England . . . . .	3
Reading and Speaking.—Phonetic Spelling; Enunciation of Words; Hillard's Fifth Reader; Declamations . . . . .	2
Spelling.—Leach's Speller and Dictations . . . . .	2
Composition. . . . .	1
Writing . . . . .	2
Free-hand Drawing . . . . .	2

## CLASS A.

Latin.—Harkness's Grammar; Harkness's Latin Prose Compo- sition, first thirty lessons; Cæsar's Gallic War, through Book III.; Virgil's Æneid, first two books . . . . .	4
French.—Magill's French Grammar; Magill's Introductory French Reader . . . . .	3
Mathematics.—Brooks's Algebra to Quadratic Equations; Davies' Legendre's Geometry, Books I.—III. . . . .	3
Physics.—Elementary Physics and Chemistry—Lectures . . . . .	1
Uranography.—(Twice a week first half-year) . . . . .	1
Physiology.—(Twice a week last half-year) . . . . .	1
History and Geography.—Smith's History of Greece; Baird's Classical Manual: Review of the History of the United States and England . . . . .	3
Reading and Speaking.—Hillard's Sixth Reader; Murdock and Russell's Vocal Culture; Declamation . . . . .	2
Spelling.—General Exercises upon Lists of Difficult Words; Dictations . . . . .	1
Composition. . . . .	1
Writing . . . . .	2
Free-hand Drawing . . . . .	2

## SCIENTIFIC DEPARTMENT OF THE PREPARATORY SCHOOL.

## CLASS B.

	<i>No. of Ex. per Week.</i>
<b>Arithmetic.</b> —Brooks's Normal Written and Brooks's Normal Mental Arithmetic, completed . . . . .	4
<b>*English Grammar.</b> —Brown's English Grammar . . . . .	4
<b>French.</b> —Magill and Paulin's First Lessons in French; Magill's Introductory French Reader . . . . .	3
<b>Geography.</b> —Warren's Physical Geography . . . . .	2
<b>History.</b> —Barnes's History of the United States; Anderson's History of England . . . . .	3
<b>Reading and Speaking.</b> —Phonetic Spelling; Enunciation of Words; Hillard's Fifth Reader; Declamations . . . . .	2
<b>Spelling.</b> —Leach's Speller, and Dictations . . . . .	2
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-hand Drawing</b> . . . . .	2

## CLASS A.

<b>Mathematics.</b> —Brooks's Algebra, to Quadratic Equations; Davies' Legendre's Geometry, Book I—IV. . . . .	4
<b>Physics.</b> —Elementary Physics and Chemistry; Lectures . . . . .	1
<b>*English Grammar.</b> —Analysis and Parsing, Merchant of Venice . . . . .	4
<b>French.</b> —Magill's French Grammar; Magill's Introductory French Reader . . . . .	3
<b>Uranography.</b> —(Twice a week first half-year) . . . . .	1
<b>Physiology.</b> —(Twice a week last half-year) . . . . .	1
<b>History and Geography.</b> —Smith's History of Greece; Baird's Classical Manual; Review of the History of the United States and England . . . . .	3
<b>Reading and Speaking.</b> —Hillard's Sixth Reader; Murdock and Russell's Vocal Culture; Declamations . . . . .	2
<b>Spelling.</b> —General Exercises; Dictations . . . . .	2
<b>Composition</b> . . . . .	1
<b>Writing</b> . . . . .	2
<b>Free-hand Drawing</b> . . . . .	2

\*Latin may be substituted for English Grammar in this course, at the request of parents or guardians.

# List of Students of the Preparatory School.

## CLASS A.

### CLASSICAL SECTION.

BURR, WALTER L.	Germantown, Pa.
CANBY, WILLIAM, JR.	Baltimore, Md.
CONROW, HANNAH, A.	Cinnaminson, N. J.
CLAYTON, SAMUEL L.	Chester, Pa.
DALLETT, ELIZABETH H.	West Chester, Pa.
DALLETT, E. JAMES	West Chester, Pa.
DARLINGTON, FRANCES	Doylestown, Pa.
DELL, JOSEPHINE	Woodbury, N. J.
DOWDALL, HANNAH C.	Avondale, Pa.
ELLIOTT, MARY J.	Norristown, Pa.
FRENCH, MARGARET B.	Haddonfield, N. J.
FRIDENBERG, EUGENE L.	Jacksonville, Florida.
GRIFFEN, ALICE L.	New York City, N. Y.
HANCOCK, EDWARD B.	Philadelphia, Pa.
HASLAM, KATIE	Penningtonville, Pa.
HOFFMAN, AGNES	West Philadelphia, Pa.
*HOMER, BENJAMIN C.	Germantown, Pa.
KESTER, ROSELDA	Angora, Pa.
KIRK, EMMA	Bryn Mawr, Pa.
LIPPINCOTT, GEORGE	Philadelphia, Pa.
LIPPINCOTT, CAROLINE	Philadelphia, Pa.
MARSHALL, ELIZABETH	Milwaukee, Wis.
MENDENHALL, ANNA	Hamorton, Pa.
MUSSER, WILLIAM W.	Lewisburg, Pa.
PARRY, TACIE	Cinnaminson, N. J.
PAULIN, EUGÉNE	Swarthmore, Pa.
REECE, LYDIA D.	Media, Pa.

\*Deceased.



SCOTT, TOWNSEND . . . . .	Baltimore, Md.
SHOEMAKER, ALVIN T. . . . .	Baltimore, Md.
STARR, WILLIAM G. . . . .	Brooklyn, L. I.
TOWNSEND, WILLIAM . . . . .	Cornwall, N. Y.
TRAVILLA, ELIZABETH N. . . . .	West Chester, Pa.
TRAVILLA, MARY . . . . .	West Chester, Pa.
WILLIAMS, SUSAN T. . . . .	Waterford, Va.

## CLASS A.

## SCIENTIFIC SECTION.

ALBERTSON, MARY . . . . .	Norristown, Pa.
BAKER, RICHARD D. . . . .	Philadelphia, Pa.
BOND, ALFRED H. . . . .	Philadelphia, Pa.
COCKS, WILLIAM W. . . . .	Old Westbury, L. I.
COX, CHARLES B. . . . .	Port Washington, L. I.
DEACON, ALLEN F. . . . .	Mt. Holly, N. J.
DORON, CHARLES B. . . . .	Germantown, Pa.
EVES, NARCISSA MASTERS . . . . .	Millville, N. J.
FENNIMORE, HENRY D. . . . .	Lumberton, N. J.
FIELD, CHARLES C. . . . .	Brooklyn, L. I.
FRENCH, SAMUEL, H. . . . .	Philadelphia, Pa.
HICKS, AMELIA . . . . .	Old Westbury, L. I.
HOPPER, GEORGE L. . . . .	Baltimore, Md.
LIPPINCOTT, LAURA M. . . . .	Harrisonville, N. J.
MAFFET, ADELAIDE W. . . . .	Wilkesbarre, Pa.
MARSHALL, WILLIAM J. . . . .	London Grove, Pa.
McLAURIN, JOHN L. . . . .	Englewood, N. J.
MUSSER, F. REBER . . . . .	Muncy, Pa.
SATTERFIELD, CLARA . . . . .	Greensboro', Md.
SEAMAN, HARRY B. . . . .	Brooklyn, L. I.
SMITH, J. CHALMERS . . . . .	Philadelphia, Pa.
STELWAGON, FRANK M. . . . .	Philadelphia, Pa.
SUNDERLAND, THOMAS T. . . . .	Warren, Pa.
TAYLOR, ISAAC P. . . . .	Parkersville, Pa.
THOMAS, I. BYRON . . . . .	Cheyney Station, Pa.
WILSON, LAURA H. . . . .	Conshohocken, Pa.
WOODNUTT, WILLIAM P. . . . .	Richmond, Ind.



## CLASS B.

## CLASSICAL SECTION.

BALLINGER, CAROLINE . . . . .	Accotunk, Va.
BRINTON, GEORGE H. . . . .	Street Road, Pa.
BROWN, CHARLES L. . . . .	New York City, Pa.
BUTLER, WILLIAM . . . . .	West Chester, Pa.
COOPER, BERTHA . . . . .	Woodbury, N. J.
DAVIDSON, A. BRADY . . . . .	Fort Scott, Kansas.
DETRICK, JOHN . . . . .	Baltimore, Md.
EARL, WILLIAM H. . . . .	Philadelphia, Pa.
ECCLES, FRANK M. . . . .	Baltimore, Md.
EMERSON, WILLIAM S. . . . .	Camden, Del.
EVANS, REBECCA T. . . . .	Cinnaminson, N. J.
HASLAM, ELIZABETH . . . . .	West Chester, Pa.
KATER, SAMUEL . . . . .	Media, Pa.
KEENER, CHARLES C. . . . .	Naples, Ill.
KNIGHT, JONATHAN, JR. . . . .	Feasterville, Pa.
LIPPINCOTT, SAMUEL W. . . . .	Germantown, Pa.
McMILLAN, WILLET E. . . . .	Washington, D. C.
PATTERSON, HENRY L. . . . .	Philadelphia, Pa.
PAUL, DAVID S. . . . .	Wallingford, Pa.
READ, ALFRED H. . . . .	Norristown, Pa.
ROSSITER, HORACE L. . . . .	Spring House, Pa.
SEAMAN, ANNA . . . . .	Jericho, L. I.
SEYBURN, EDWARD I. . . . .	Pottersville, La.
SPEAKMAN, FRANCENIA S. . . . .	Wallace, Pa.
VERREE, JAMES E. . . . .	Verreeville, Pa.
WEST, R. ANNA. . . . .	King of Prussia, Pa.
WOLFE, FANNY K. . . . .	New York City, N. Y.

## CLASS B.

## SCIENTIFIC SECTION.

BORDEN, FRANK P. . . . .	Mt. Holly, N. J.
ELDER, GEORGE R. . . . .	Johnstown, Pa.
FOWLER, CHESTER B. . . . .	Brooklyn, L. I.
GOULD, JAMES G. . . . .	Philadelphia, Pa.
HALL, JOHN . . . . .	Philadelphia, Pa.

HAZELTON, WILLIAM, JR.	Philadelphia, Pa.
HUTCHINSON, JAMES	Philadelphia, Pa.
LUKENS, NATHAN	Upper Darby, Pa.
MARSHALL, SAMUEL H.	Milwaukee, Wis.
NICHOLAS, JAMES F.	Roxborough, Pa.
PACKER, WALTER H.	Philadelphia, Pa.
PARVIN, WALTER M.	Philadelphia, Pa.
PENNOCK, JOHN S.	Coatesville, Pa.
RUSHMORE, CHARLES F.	Cooksburg, N. Y.
RUSHMORE, EDWARD C.	Cooksburg, N. Y.
SHARPLESS, JOHN E.	Chester, Pa.
SHARPLESS, TOWNSEND,	Philadelphia, Pa.
WARRICK, WOODWARD, JR.	Glassboro', N. J.
WESSELS, LEWIS C.	Philadelphia, Pa.
YERKES, EVALEENA	Philadelphia, Pa.
YOUNG, ALEXANDER D.	Philadelphia, Pa.

## CLASS C.

ALLEN, JOHN M.	Germantown, Pa.
BANER, W. LLEWELLYN	New York City.
BISHOP, GEORGE A.	Toledo, O.
BURNLEY, MICHAEL	Garrettsford, Pa.
CONROW, A. ALIDA	Philadelphia, Pa.
DOWDALL, WILLIAM F.	Avondale, Pa.
ELLIS, FRANCIS S.	Crosswicks, N. J.
FOWLER, GEORGE R.	Cienfuegos, Cuba.
GOULD, GEORGE E.	Philadelphia, Pa.
GOULD, JOSHUA M.	Philadelphia, Pa.
HENDERSON, R. MASON	Baltimore, Md.
HUNGERFORD, CHARLES H. G.	Baltimore, Md.
JACKSON, ALICE W.	Horsham, Pa.
KNIGHT, J. LINCOLN	Holland, Pa.
LEWIS, J. HOWARD	Oakdale, Pa.
MARSHALL, CHARLES I.	Milwaukee, Wis.
MOORE, JOSEPH T.	Sandy Spring, Md.
(de)NORMANDIE, WILLIAM C.	Wilmington, Del.
PARVIN, WILLIAM P.	Philadelphia, Pa.
PENNOCK, CHARLES W.	Coatesville, Pa.

PYLE, CARLETON J.	Mortonville, Pa.
REEVES, THOMAS W.	Clarksboro', N. J.
RUNYON, ENOS W.	Plainfield, N. J.
SCHEIB, WILLIAM F.	Tiffin, O.
SEAMAN, FREDERICK A.	Madison, N. J.
SMITH, PHILEMON J.	Damascus, Md.
STARR, EDWIN M.	Richmond, Ind.
THORNE, EDWARD C.	New York City, N. Y.
WARNER, ANNA H.	Penn's Park, Pa.
WILSON, DAISY	Dover, Del.
YARROW, JOHN	Philadelphia, Pa.

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## SUMMARY.

Class A,	61
Class B,	48
Class C,	31
Total in Preparatory School,	<u>140</u>

# GENERAL SUMMARY

## OF THE

### COLLEGE AND PREPARATORY SCHOOL.

Senior Class, . . . . .	6
Junior Class, . . . . .	18
Sophomore Class, . . . . .	21
Freshman Class, . . . . .	42
Preparatory Students, . . . . .	140
Total, . . . . .	<u>227</u>

#### SUMMARY BY STATES.

Pennsylvania, . . . . .	117
New York, . . . . .	31
New Jersey, . . . . .	26
Maryland, . . . . .	22
Delaware, . . . . .	5
Indiana, . . . . .	5
Ohio, . . . . .	5
Wisconsin, . . . . .	3
District of Columbia, . . . . .	2
Illinois, . . . . .	2
Virginia, . . . . .	2
Florida, . . . . .	1
Kansas, . . . . .	1
Louisiana, . . . . .	1
Massachusetts, . . . . .	1
Rhode Island, . . . . .	1
Texas, . . . . .	1
Cuba, . . . . .	1
Total, . . . . .	<u>227</u>

M I N U T E S

OF THE

THIRTEENTH ANNUAL MEETING

OF THE

STOCKHOLDERS

OF

SWARTHMORE COLLEGE,

HELD

TWELFTH MONTH, FIFTH,

1876.



## MINUTES.

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At the Thirteenth Annual Meeting of the Stockholders of Swarthmore College, held at Race Street Meeting House, Philadelphia, Twelfth mo. 5th, 1876, according to public notice given as required by the Charter :

The minutes of the last Annual Meeting were read and approved

The terms of office of the following managers expired at this time :

Edward Hoopes,	Rachel T. Jackson,
William H. Macy,	Anna M. Hunt,
Ellwood Burdsall,	Caroline Underhill,
B. Rush Roberts,	Elizabeth S. Worth.

To nominate the officers of the Corporation, required by the Charter, viz.: two Clerks and a Treasurer, to serve for the ensuing year, and eight Friends, who are Stockholders, to fill the vacancies in the Board of Managers, the following were appointed :

John D. Hicks, Mary C. Blackburn, Hugh McIlvain, Dillwyn Parrish, Daniel Underhill, Henry M. Laing, Richard H. Downing, Clement M. Biddle, S. Emlen Sharpless, Anna M. Ferris, Lydia C. Biddle and Joseph Matthews.

The reports of the Board of Managers, the Treasurer, and the Committee on Trusts, Endowments and Scholarships, were read, separately considered, approved, and referred to the incoming Board for publication.

The Nominating Committee, having withdrawn for a time, submitted the following nominations :

### CLERKS FOR ONE YEAR.

ISAAC H. CLOTHIER,	SARAH F. CORLIES.
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### MANAGERS FOR FOUR YEARS.

ELLWOOD BURDSALL,	RACHEL T. JACKSON,
B. RUSH ROBERTS,	ANNA M. HUNT,
JOSEPH WILLETS,	CAROLINE UNDERHILL,
ANNIE SHOEMAKER,	ELIZABETH S. WORTH.

### TREASURER.

ROBERT BIDDLE.



To serve as Inspectors of the Election, Thomas H. Speakman, Samuel S. Ash and Emmor Roberts, were appointed.

An election by ballot was held, and the Inspectors reported the above officers elected, without opposition.

The Board of Managers informed that they had elected Eli M. Lamb a member of the Board, to fill the vacancy occasioned by the resignation of Henry C. Hallowell, for the unexpired term of three years; also, that they had elected Mary C. Blackburn to fill the vacancy occasioned by the death of Elizabeth T. Yardley, for the unexpired term of one year.

The proposition made at the last Annual Meeting, to change the first sentence in Article II, of the Constitution, relative to the time and place of holding the Stockholders' Meeting, came up for consideration. On motion, further action upon the subject was indefinitely postponed.

A proposition was received from the Board of Managers to make the following change in the By-Laws:

Insert in By-Law II, "Friends' Historical Library," instead of "Anson Lapham Repository."

The proposition was approved, and the By-Law, as changed, was adopted.

Then adjourned.

ISAAC H. CLOTHIER, }  
SARAH F. CORLIES, } *Clerks.*

## MANAGERS' REPORT.

With the close of another year the Managers are again called upon to present to the Stockholders their Annual Report.

During the year just passed we have lost by death one of our number, Elizabeth T. Yardley, of Baltimore, who, although not identified with us in the beginning, was deeply interested in the welfare of the College. Her place has been filled by the Board, for the unexpired term of one year, by the election of Mary C. Blackburn, who has recently entered upon her duties.

Another vacancy has occurred among the representatives from Baltimore, by the resignation of Henry C. Hallowell, whose wise

counsel and large experience rendered invaluable aid to the College. Eli M. Lamb has been elected to fill his place for the unexpired term of three years.

The past year has been one of quiet and steady progress and uninterrupted prosperity for our College. Notwithstanding the great financial embarrassments under which the country has been laboring, the number of students has remained about the same as last year, and the current expenses of the College, as heretofore, have been rather more than met by the annual receipts. The corps of instructors remains nearly the same, and no change has been made in the members of the Faculty. The whole number of students for the present year is 227, who are classified as follows:—Seniors, 6; Juniors, 18; Sophomores, 21; Freshmen, 42. Preparatory School—Class A, 61; Class B, 47; Class C, 32.

The Modern Classical Course, or a classical course without requiring the study of the ancient languages, introduced for the first time the present year, and referred to as in prospect in the last annual report, is giving general satisfaction, and is pursued by several students, as will be shown by the following classification:—

Senior Class—Classical Course, 5; Engineering Course, 1.

Junior Class—Classical Course, 9; Modern Classical Course, 2;  
Engineering Course, 4; Chemical Course, 3.

Sophomore Class—Classical Course, 11; Modern Classical Course, 4;  
Scientific Course, 6.

Freshman Class—Classical Course, 23; Modern Classical Course, 8;  
Scientific Course, 11.

Class A—Classical Course, 34; Scientific Course, 27.

Class B—Classical Course, 26; Scientific Course, 21.

Class C—32.

A wide range of choice is now given our students, three full courses of study being open before them, each leading to a degree, so that there is less reason than ever before for irregularity. All are therefore encouraged, whether they expect to remain a longer or a shorter time, to take one or the other of the regular courses. This is of great advantage to them if they decide to remain and complete the course, and of perhaps equal advantage if they remain with us but a single year, for experience has shown that but few students do well, and reap all the benefits which our College is intended to confer, if they take irregular or partial courses. It is not, however, our wish to discourage those students of maturer

age, who enter the College for a short time, and for an especial purpose, from taking but a single branch, or a few selected branches of study. Every facility is offered such students, to enable them to make the best use of their time, and to accomplish well, in the shortest practicable period, the special work for which they enter.

It will be observed that in the Junior Class three students are pursuing the Chemical Course, leading to the degree of Bachelor of Science in Physics and Chemistry. This is the first time since the organization of the College that any of the students, upon reaching their Junior year, have chosen this branch of the Scientific Course, and it is a source of much encouragement to that department, which is now well organized, furnished with excellent facilities for laboratory work, and under efficient management. A course in medical chemistry has also been established for the benefit of those hereafter to pursue the study of medicine. One member of the Classical Department of the Junior Class has already entered upon this, and others will doubtless follow his example. There are also several students pursuing an advanced elective course in chemistry, in addition to the required studies of their regular course. As it has always been the wish of a large number of the friends of the College, as well as the cherished hope of the first president, that the Chemical Department should be made a prominent and important part of our work, this information will doubtless be a source of great satisfaction to the stockholders. Chemistry is required of the sixty members of Class A, of the Preparatory School, including both the Classical and Scientific sections, and some apparatus has been procured, in addition to the supply already on hand, for the fuller illustration of this important subject.

The other branch of the Scientific Department, that of Mechanics and Engineering, has received a new impetus during the past year, and the work shop, occupying a part of the Gymnasium Building, has been enlarged and supplied with additional machinery, and a steam engine and boiler for driving it. This engine was built for the department, and answers the double purpose of driving the machinery and serving for class illustration and instruction. The use of the machinery and tools is practically taught to the students by the professor in charge. Our facilities for giving a course in Mechanical Engineering are now good and constantly increasing. We are indebted to the liberality of a friend who has always been deeply interested in the welfare of the College, for a generous dona-

tion of \$1000 toward purchasing the necessary machinery and tools for the shop during the past summer, while, for deciding upon and obtaining these at reasonable rates, the Centennial, with its wonderful display in this department, has furnished, this year, unusual facilities. There is no department of our College more worthy of aid and encouragement than this, none requiring a heavier present outlay, and none more likely, in the near future, to be productive of good practical results. It is under excellent management, and already, even in its comparative infancy, it has sent out a number of young men who are actively and successfully engaged in mechanical pursuits.

The Departments of Languages are under the same general charge as last year, and are producing excellent results. The only important change to be noted here is that already referred to in another connection, the introduction of the study of Early English and Anglo-Saxon for the students in the Modern Classical Course. This additional labor is very acceptably performed by the Professor of Greek and German.

The books needed in the various departments have been added to the General and Reference Libraries as fast as the means of the College would allow. A large fund, to be called the Library Fund, placed under the care of the committee on the Library, to be drawn upon as books are needed, is one of the imperative needs of the College, and one which should be supplied at an early day. At least a thousand dollars a year could be profitably expended in this way for many years to come. Our Library has been furnished with additional cases, is increasing gradually, and now numbers about 2,600 volumes.

Friends' Historical Library, founded by Anson Lapham, of Skaneateles, N. Y., (in whose recent death the College has lost an active and earnest advocate and a liberal friend), has been considerably increased during the past year, and now numbers more than 450 volumes. A full descriptive catalogue of the books and other objects of interest in this collection is now in preparation, and will be distributed among the stockholders when published, in the hope that when they see the complete list and the descriptions of the collections already made, they may be induced to make contributions to increase what has been so well begun. A few Friends have contributed liberally this year, but such contributions have come in slowly, though called for regularly in our Annual Reports. The



great value of a complete library of Friends' books to such an institution as Swarthmore, the only College in the country belonging to our Society, is too obvious to need to be further enlarged upon in this Report.

The Students' Library, referred to last year as having then been but recently established, now numbers several hundred volumes. These are under the care of the different Literary Societies of the College classes, are purchased by them and held for their use, with the understanding that, in case of the disorganization of any Society, its library and other property revert to the College. This principle gives permanence and stability to the collections made from year to year.

Our Museum of Natural History is gradually increasing under the same able management as it has been from the beginning, and by the change in the department of engineering, already referred to, the rooms occupied by that department are vacated, and available for the introduction of additional museum cases, which can be arranged so as to receive a good light. Some of these are now needed to place properly the growing collections already on hand, and other collections which we should have but for want of additional room. The course of lectures on Zoology and Comparative Anatomy, illustrated by the specimens arranged in the museum, and those on Mineralogy, Botany and Geology, similarly illustrated, are continued as heretofore, and form a valuable part of our College curriculum.

In addition to the regular instruction provided, as laid down in the catalogue, lectures upon subjects of general interest have been delivered to the students during the year. Several of these have also been attended by the neighbors and friends of the College, and they have been a source of great satisfaction, furnishing to the students, as they do, an agreeable and healthful change from the regular routine of study, besides presenting to their minds valuable food for thought, and cultivated models for their imitation. The sum of \$500 a year, set apart to provide lectures of this description, would be for the College a most profitable investment. The expense of these lectures has been thus far defrayed by a fund which would otherwise have been used to increase our General and Reference Libraries.

We can say nothing more than has been said in our previous Reports upon the subject of co-education. We must, however,

reiterate here our continued and unabated confidence in the system, after an additional year's experience. We may refer also, in addition to our own testimony upon the subject, to that of strangers who have visited the College during the year. This has been most unequivocal in favor of the system, as developed at Swarthmore, and shown forth by its practical results, manifest in the daily life and walk of the large number of boys and girls and young men and young women under our care. Our eminent success in this particular is known and acknowledged throughout the country, as far as the name of Swarthmore has extended, and should any still entertain doubts upon this subject, they are earnestly invited to visit the College and witness the successful working of the system. It makes fully and symmetrically developed young men and young women, and under proper management there is no need whatever that this should be at the expense of scholarship, but rather, on the contrary, it may be made an important accessory to it.

The health of the students has continued excellent during the year just passed, no serious sickness having occurred at the College during that period. So unbroken a record of health, among so large a number, and for so long a period, as Swarthmore has enjoyed during the seven years of its existence, may be considered as truly remarkable. This we attribute both to the healthful site, and to the excellent sanitary regulations within the College walls.

The general government of the College, continued under the same Faculty as last year, has been productive of the same beneficent results. Kindness, forbearance and gentleness have characterized their dealings with those under their care. This spirit has produced its legitimate fruit among the students themselves, the manifestations of which, have been the subject of frequent remark and commendation by the visitors drawn to the city of Philadelphia from our own and other countries during this Centennial year. Surely our students have good reason to look back upon Swarthmore after their departure, as so many of them already do thus early in its history, as their second home. Nor is it at all inconsistent with this genial, kindly care, that, in their watchful anxiety for the welfare of our beloved institution, the authorities have occasionally found it necessary to remove students whose influence and example were not in harmony with the prevailing spirit of the place. It is only by a resolute and conscientious performance

of their duty when such cases arise, that the mild and parental system there practiced can be made to produce its best results.

Extensive material improvements in the College property were made last year, and referred to in the last report. During the present year the large farm of the West-Dale property, the purchase of which was made a year ago, has been put under excellent cultivation. This has been done at considerable expense, for which the crops of the present year could not be expected to make an adequate return. The means for this purpose, as well as to pay for some of the permanent improvements made last year, have been taken from the current receipts. This shows a deficiency in the general account, while a small surplus is shown on comparing the receipts on the tuition account with the regular current expenses for the year. Among the improvements made on the property during the year should be mentioned a new and commodious station, now being erected by the West Chester and Philadelphia Railroad Company, on ground leased to it by the College for this purpose.

In the conclusion of last year's report an appeal was made for the establishment of a large permanent endowment fund at an early day, to be devoted to aiding those deserving students who could not otherwise obtain an education at Swarthmore. A few weeks after the appearance of that report, real estate valued at \$25,000 was made over to the College for this purpose, by our friend Isaiah V. Williamson, who had already contributed largely toward this end. This, with other sums previously reported, is placed under the care of the Committee on Trusts, Endowments and Scholarships, and the income only is to be used from year to year to aid such students as may make acceptable application to that committee for assistance. If this Endowment Fund could be largely increased it would add greatly to the usefulness of the College. It is well known that those who reap the most benefit from a course of instruction in such an institution as Swarthmore, are frequently those of limited means, who are worthy candidates for aid from such a fund. Nor would the great benefit to be derived from this source accrue to those only who received the assistance. The influence of a body of such students, who are likely to be those of mature age and earnest purpose, would give a higher tone to the whole College, and do much to advance the standard of scholarship.

114183-



## TREASURER'S REPORT.

ROBERT BIDDLE, *Treasurer, in account with Swarthmore College.*

1875.

*DR.*

12th mo. 8th. To amount received from H. McIlvain, Treasurer, . \$10,637.28

1876.

12th mo. 4th.	To amount received	Donation to Workshop,	. . .	1,450.00
	"	for Rents,	. . . . .	320 00
	"	for Meals taken at the College,	. . . . .	300.00
	"	for Farm Products,	. . . . .	325.00
	"	on Tuition Acc't,	. . . . .	77,230.77
	"	for Interest,	. . . . .	334.88
				<hr/>
				\$90,597.93

*CR.*

By amount paid on account of Workshop,	. . .	1,182.66
" of Tuition,	. . .	76,095.93
for returned Tuition,	. . .	651.16
Interest on Endowment Fund,	. . .	2,010.17
Cash on hand,	. . . . .	10,658.01
		<hr/>
		\$90,597.93

We have examined the above account of Robert Biddle, Treasurer, compared it with his vouchers, and find it correct.

EDWARD TAYLOR,  
JAMES V. WATSON,  
*Auditors.*

PHILADELPHIA, 12th mo. 5th, 1876.

*Report of the Treasurer of the Committee on Trusts, Endowments and Scholarships.*

CLEMENT M. BIDDLE, *Treasurer, in account with Committee on Trusts, Endowments and Scholarships, of Swarthmore College.*

INVESTMENT ACCOUNT.

DR.

General Endowment Fund.

Samuel J. Underhill,	-	-	-	-	\$5,000.00	
Isaiah V. Williamson,	-	-	-	-	10,000.00	
					<hr/>	\$15,000.00

Educational Endowment Fund.

Thos. H. Speakman,	-	-	-	-	100.00	
Deborah F. Wharton,	-	-	-	-	5,000.00	
Isaiah V. Williamson,	-	-	-	-	25,000.00	
					<hr/>	\$30,100.00

Special Scholarship Fund.

Westbury Quarterly Meeting,	-	-	-	-	-	5,000.00
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Perpetual Scholarship Fund.

Anson Lapham,	-	-	-	-	-	10,000.00
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Special Endowment Fund.	-	-	-	-	-	10,000.00
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Bayard P. Blachly, Loan without Interest,	-	-	-	-	-	2,500.00
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\$72,600.00

CR.

Ground Rents, I. V. W., Philadelphia,	-	-	-	-	-	10,000.00
Swarthmore College Due Bills,	-	-	-	-	-	16,100.00
Equitable Trust Co., Bonds,	-	-	-	-	-	6,500.00
Schuylkill Navigation Co., Bonds,	-	-	-	-	-	5,000.00
Property 727 Chestnut St., $\frac{1}{3}$ Interest,	-	-	-	-	-	25,000.00
Mortgage Account, Gallagher, N. Y.,	-	-	-	-	-	10,000.00
						<hr/> \$72,600.00

We have examined the account of Clement M. Biddle, Treasurer, compared it with the investments, and find it correct.

EDWARD TAYLOR,  
JAMES V. WATSON,  
*Auditors.*

*Report of the Treasurer of the Committee on Trusts, Endowments and Scholarships—Continued.*

INCOME ACCOUNT.

*DR.*

General Endowment,	-	-	-	-	-	-	-	\$1,288.26
Educational Endowment,	-	-	-	-	-	-	-	1,145.29
Special Endowment,	-	-	-	-	-	-	-	449.17
Perpetual Scholarship,	-	-	-	-	-	-	-	1,026.67
Special Scholarship,	-	-	-	-	-	-	-	738.50
								<hr/>
								\$4,647.89

*CR.*

General Endowment,	-	-	-	-	-	-	-	2,108.42
Educational Endowment,	-	-	-	-	-	-	-	955.56
Special Endowment,	-	-	-	-	-	-	-	300.00
Perpetual Scholarship,	-	-	-	-	-	-	-	350.00
Special Scholarship,	-	-	-	-	-	-	-	700.00
Cash in Philada. Trust and Safe Deposit Co.,	-	-	-	-	-	-	-	233.91
								<hr/>
								\$4,647.89

CLEMENT M. BIDDLE,

*Treasurer of Committee on Trusts, Endowments and Scholarships.*

For the year ending 12th mo. 4th, 1876.

# GRADUATES.

## CLASS OF 1873.

SARAH H. ACTON, A.B.	Salem, N. J.
HELEN MAGILL, A.B.	Boston University, Boston, Mass.
ELIZABETH C. MILLER, A.B.	Swarthmore College.
ESTHER T. MOORE, A.B.	Swarthmore College.
MARIA (PIERCE) GREEN, A.B.	Swarthmore College.
LOWNDES TAYLOR, A.B.	West Chester, Pa.

## CLASS OF 1874.

ELLEN H. EVANS, A.B.	West Chester, Pa.
AMY W. HALL, A.B.	Swarthmore, Pa.
*ALFRED T. HAVILAND, B.S.	Millbrook, N. Y.
MARY (HIBBARD) THATCHER, A.B.	Darby, Pa.
HERMAN HOOPES, B.S.	Philadelphia, Pa.
FERRIS W. PRICE, A.B.	Philadelphia, Pa.
ELIZABETH S. WOOLSTON, A.B.	Mt. Washington, Md.

## CLASS OF 1875.

JOHN B. BOOTH, A.B.	Swarthmore College.
HELEN T. COMLY, A.B.	Byberry, Pa.
FRANKLIN H. CORLIES, B.S.	Philadelphia, Pa.
HERBERT G. DOW, A.B.	Harvard College, Cambridge, Mass.
LIZZIE (HANES) TAYLOR, A.B.	Woodstown, N. J.
EDITH R. HOOPER, A.B.	Titusville, Pa.
BARTON HOOPES, Jr., B.S.	Philadelphia, Pa.
OLIVER KEESE, Jr., B.S.	Titusville, Pa.
J. REECE LEWIS, B.S.	Media, Pa.
HOWARD W. LIPPINCOTT, A.B.	Philadelphia, Pa.
MARTHA McILVAIN, A.B.	Philadelphia, Pa.
JOHN K. RICHARDS, A.B.	Harvard College, Cambridge, Mass.
WILLIAM H. RIDGWAY, B.S.	Coatesville, Pa.

\*Deceased.

## CLASS OF 1876.

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FRANCES LINTON, A.B.	. . .	West Chester, Pa.
ELIZABETH J. LONGSTRETH, A.B.	. . .	Sharon Hill, Pa.
JAMES T. McCLURE, B.S.	. . .	Philadelphia, Pa.
EMMA McILVAIN, A.B.	. . .	Philadelphia, Pa.
EDWIN MITCHELL, Jr., A.B.	. . .	Ecole de Médecine, Paris, France.
ISAAC G. SMEDLEY, B.S.	. . .	Willistown, Pa.
HERBERT W. SMYTH, A.B.	. . .	Harvard College, Cambridge, Mass.
MARY WILLETS, A.B.	. . .	Maiden Creek, Pa.
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